Polytec

ELC-4001

Modular UV/VISIBLE Light Cure System

Since its inception, Electro-Lite has been changing the way many manufactures view assembly production processes. The versatility and cost-effectiveness of Electro-Lite's advanced light curing technology has made the ELC-4001 the system of choice for many emerging light cure applications involving electronics, medical device, and electro-optical assemblies. Its versatile modular design satisfies industry needs for increased productivity, lower energy costs and an end to pollution emissions, while contributing to the quality of the assembled product. Whether housed in the optional height adjustable curing frame, positioned over a conveyor, or positioned end to end for uniform and expanded applications, its compact design offers simple installation with regard to space and orientation.

The ELC-4001 light cure system generates greater than 100 mW/cm² of UV energy at a peak wavelength of 365nm. Employing a custom designed 400-Watt metal halide lamp, its computer designed, highly efficient reflector which assures even light distribution and eliminates the danger of hot spots or shadowing. The system is equipped with an internal cooling fan, enabling the ELC-4001 to provide maximum light curing intensity at a reduced operating temperature.

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Features:

The standard lamp provided with the light module generates the long-wave UVA portion of the spectrum; the most effective in the rapid cure of UV activated materials. For the photo-activation of materials requiring short-wave UVB or VISIBLE light energy, optional 400-Watt replacement lamps are available.
The ELC-4001 light cure system is powered by the ELC-2542, highly efficient, solid state, auto-ranging power supply, featuring a half-power mode that provides a hot-strike capability for increased lamp life.

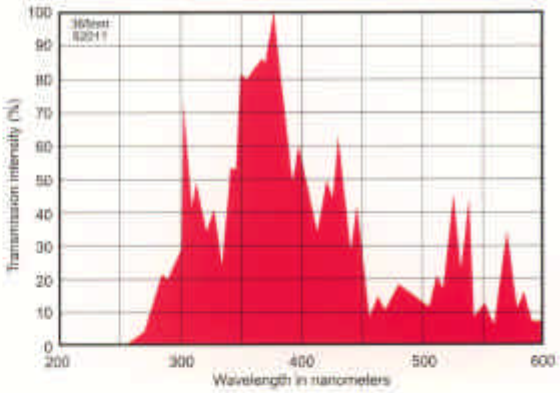
Specifications:

Auto-ranging input:	90V AC to 264V AC, 50/60 Hz, solid state power supply
Lamp input power:	400 Watts
Area of exposure:	7" x 9" (19 cm x 23 cm)
Module dimensions:	8" x 10" x 8" (21.6 cm x 26.7 cm x 21.6 cm)
Weight — Module:	3.3 lbs. (1.5 kg)
Power supply:	6.4 lbs. (3.1 kg)
Lamp module cable:	12 ft. (366 cm)

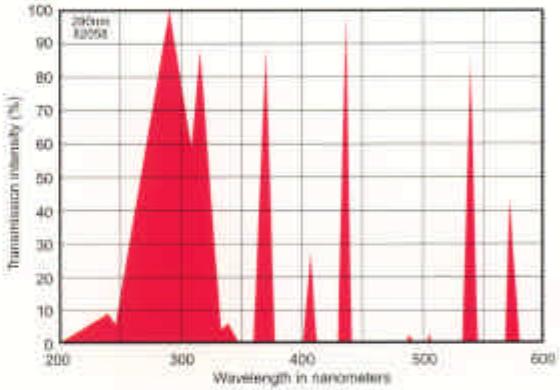
Accessories And Spare Parts:

82011	Replacement 365nm (UVA) lamp
82058	Replacement 290nm (UVB) lamp
82038	Replacement 440nm (VISIBLE) lamp
80001	Filter for use with UVA and VISIBLE lamps
82039	Height adjustable curing frame with safety shield
81116	ELC-2542 power supply, 90 — 120V, 60 Hz
81117	ELC-2542 power supply, 220 — 240V, 50 Hz
82181	ELC-4001 light module (common to all voltages)
82106	Replacement lamp sockets (two per set)
82134	UV/VISIBLE light safety eyeglasses — clip-on style
82138	UV/VISIBLE light safety eyeglasses — standard frame
82140	UV/VISIBLE light safety eyeglasses with side shields
81103	LCD digital count-down clock with audible alarm
81307	ELC-300 UV Radiometer

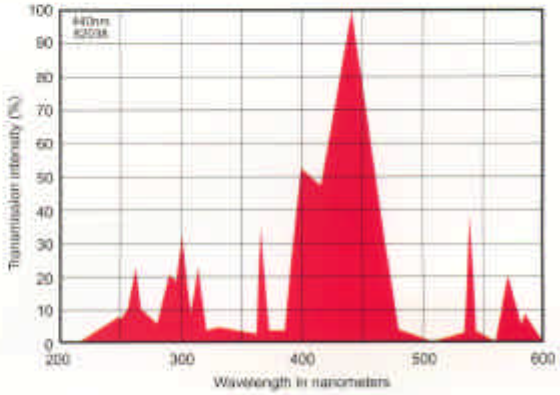
Spectral Distribution of Radial Intensity



Standard 365nm Lamp — Long Wave UV



Optional 290nm Lamp — Short Wave UV



Optional 440nm Lamp — VISIBLE Light

Spectral Irradiance from Lightsource

1" (3cm)	5" (13cm)	10" (26cm)	15" (38cm)
125mW/cm^2	85mW/cm^2	50mW/cm^2	30mW/cm^2

ELC-4001 Mounted in Height Adjustable Curing Frame
(All measurements are in mW/cm^2 at 365nm)

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